# File permissions in Linux

## Project description

The team has to update the file permissions for the files within the *projects* directory.

The current permissions are not keeping the system secure enough and should be updated as soon as possible, to give authorization to people properly. I did the following:

## Check file and directory details

Checked the files using Linux commands. I have verified every file including hidden ones, and looked at the current permissions.

## 

## Describe the permissions string

The first 10 characters form the permission string. The permissions string is divided into four parts:

File Type Indicator (1 character)

Owner (User) Permissions (3 characters)

Group Permissions (3 characters)

Others (World) Permissions (3 characters)

The file indicator could be *d*, for a directory or *–* for a normal file.

For every of the other 3 characters pairs, these represent the permissions granted to users who are in the file's group:

r: Read permission

w: Write permission

x: Execute permission

-: No permission

Provided this example:-rwxr-xr--, the permissions are:

* **-**: Regular file
* **rwx**: The owner can read, write, and execute.
* **r-x**: The group can read and execute.
* **r--**: Others can read only.

## Change file permissions

The first two lines of the screenshot display the commands I entered, and the other lines

display the output of the second command. The chmod command changes the permissions on

files and directories.

## Change file permissions on a hidden file

The first two lines of the screenshot display the commands I entered, and the other lines

display the output of the second command. The chmod command changes the permissions on

files and directories.

## Change directory permissions

The first two lines of the screenshot display the commands I entered, and the other lines

display the output of the second command. The chmod command changes the permissions on

files and directories.

## Summary

I started by using the ls -la command to check the current permissions for files and directories within the projects directory, which helped guide my decisions on the necessary permission changes. Following this, I used the chmod command several times to adjust the permissions to match the authorization levels required by my organization.